



# Oracle

## 1Z0-815 Exam

### Java SE 11 Programmer I Exam

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## Version: 9.0

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**Question: 1**

---

Given:

```
public class A {  
    private boolean checkValue(int val) {  
        return true;  
    }  
}
```

and

```
public class B extends A {  
    public int modifyVal(int val) {  
        if(checkValue(val)) {  
            return val;  
        } else {  
            return 0;  
        }  
    }  
    public static void Main(String[] args) {  
        B b = new B();  
        System.out.println(b.modifyVal(10));  
    }  
}
```

What is the result?

- A. nothing
- B. It fails to compile.
- C. 0
- D. A java.lang.IllegalArgumentException is thrown.
- E. 10

---

**Answer: B**

---

Explanation:

```
1 public class A {  
2     private boolean checkValue(int val) {  
3         return true;  
4     }  
5 }  
6 and  
7 public class B extends A {  
8     public int modifyVal(int val) {  
9         if(checkValue(val)) {  
10             return val;  
11         } else {  
12             return 0;  
13         }  
14     }  
15     public static void Main(String[] args) {  
16         B b = new B();  
17         system.out.println(b.modfiyVal (10));  
18     }  
19 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: sec(s), Memory: kilobyte(s)

```
/A.java:6: error: class, interface, or enum expected  
and  
^  
1 error
```

---

**Question: 2**

---

Given:

```
public interface API {    //line 1
    public void checkValue(Object value)
        throws IllegalArgumentException; //line 2
    public boolean isValueANumber(Object val) {
        if(val instanceof Number) {
            return true;
        }else {
            try {
                Double.parseDouble(val.toString());
                return true;
            }catch (NumberFormatException ex) {
                return false;
            }
        }
    }
}
```

Which two changes need to be made to make this class compile? (Choose two.)

- A. Change Line 1 to an abstract class:public abstract class API {
- B. Change Line 2 access modifier to protected:protected void checkValue(Object value)throws IllegalArgumentException;
- C. Change Line 1 to a class:public class API {
- D. Change Line 1 to extend java.lang.AutoCloseable:public interface API extends AutoCloseable {
- E. Change Line 2 to an abstract method:public abstract void checkValue(Object value)throws IllegalArgumentException;

---

**Answer: C,E**

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**Question: 3**

---

Which two modules include APIs in the Java SE Specification? (Choose two.)

- A. java.logging
- B. java.desktop
- C. javafx
- D. jdk.httpserver

E. jdk.jar tool

---

**Answer: A,D**

---

Explanation:

Reference:

<https://docs.oracle.com/javase/9/docs/api/overview-summary>

---

**Question: 4**

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Given:

```
public class Test{
    private int num = 1;
    private int div = 0;

    public void divide() {
        try {
            num = num / div;
            System.out.print("Exception");
        }
        catch(ArithmeticException ae) { num = 100; }
        catch(Exception e) { num = 200; }
        finally { num = 300; }
        System.out.print(num);
    }
    public static void main(String args[])
    {
        Test test = new Test();
        test.divide();
    }
}
```

What is the output?

- A. 300
- B. Exception
- C. 200
- D. 100

---

**Answer: A**

---

Explanation:

```
1 public class Test{
2     private int num = 1;
3     private int div = 0;
4
5     public void divide() {
6         try {
7             num = num / div;
8             System.out.print("Exception");
9         }
10        catch(ArithmeticException ae) { num = 100; }
11        catch(Exception e) { num = 200; }
12        finally { num = 300; }
13        System.out.print(num);
14    }
15    public static void main(String args[])
16    {
17        Test test = new Test();
18        test.divide();
19    }
20 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4



In

CommandLine Arguments

Result

CPU Time: 0.15 sec(s), Memory: 32484 kilobyte(s)

300

---

**Question: 5**

---

Which two statements are true about the modular JDK? (Choose two.)

- A. The foundational APIs of the Java SE Platform are found in the java.base module.
- B. An application must be structured as modules in order to run on the modular JDK.
- C. It is possible but undesirable to configure modules' exports from the command line.
- D. APIs are deprecated more aggressively because the JDK has been modularized.

---

**Answer: A,B**

---

---

**Question: 6**

---

Given the code fragment:

```
int[] secA = { 2, 4, 6, 8, 10 };  
int[] secB = { 2, 4, 8, 6, 10 };  
int res1 = Arrays.mismatch(secA, secB);  
int res2 = Arrays.compare(secA, secB);  
System.out.print(res1 + " : " + res2);
```

What is the result?

- A. -1 : 2
- B. 2 : -1
- C. 2 : 3
- D. 3 : 0

---

**Answer: A**

---

---

**Question: 7**

---

Given:

```
import java.io.*;
public class Tester {
    public static void main(String[] args) {
        try {
            doA();
            doB();
        } catch(IOException e) {
            System.out.print("c");
            return;
        } finally{
            System.out.print("d");
        }
        System.out.print("f");
    }
    private static void doA() {
        System.out.print("a");
        if (false) {
            throw new IndexOutOfBoundsException();
        }
    }
    private static void doB() throws FileNotFoundException {
        System.out.print("b");
        if (true) {
            throw new FileNotFoundException();
        }
    }
}
```

What is the result?

- A. The compilation fails.
- B. abdf
- C. abd
- D. adf
- E. abcd

---

**Answer: A**

---

---

### Question: 8

---

Which set of commands is necessary to create and run a custom runtime image from Java source files?

- A. java, jdeps
- B. javac, jlink
- C. jar, jlink
- D. javac, jar



---

**Answer: C**

---

Explanation:

Reference:

<https://blogs.oracle.com/jtc/automating-the-creation-of-jdk9-reduced-runtime-images-in-netbeans>

---

**Question: 9**

---

Given:

```
public class Tester {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder(5);  
        sb.append("HOWDY");  
        sb.insert(0, ' ');  
        sb.replace(3, 5, "LL");  
        sb.insert(6, "COW");  
        sb.delete(2, 7);  
        System.out.println(sb.length());  
    }  
}
```

What is the result?

- A. 4
- B. 3
- C. An exception is thrown at runtime.
- D. 5

---

**Answer: D**

---

Explanation:

```
6 public class Tester {  
7     public static void main(String[] args) {  
8         StringBuilder sb = new StringBuilder (5);  
9         sb.append ("HOWDY") ;  
10        sb.insert (0, ' ');  
11        sb.replace(3, 5, "LL");  
12        sb.insert (6, "COW");  
13        sb.delete(2, 7);  
14        System.out.println(sb.length());  
15    }  
16 }
```

(command line arguments)

COMPILE &amp; EXECUTE

PASTE SOURCE

Successfully compiled /tmp/java\_82Tlan/Tester.java &lt;-- main method

5

---

**Question: 10**

---

Given:

```
import java.util.function.BiFunction;
public class Pair<T> {
    final BiFunction<T, T, Boolean> validator;
    T left = null;
    T right = null;
    private Pair() {
        validator=null;
    }
    Pair(BiFunction<T, T, Boolean> v, T x, T y) {
        validator = v;
        set(x, y);
    }
    void set(T x, T y) {
        if (!validator.apply(x, y)) throw new IllegalArgumentException();
        setLeft(x);
        setRight(y);
    }
    void setLeft(T x) {
        left = x;
    }
    void setRight(T y) {
        right = y;
    }
    final boolean isValid() {
        return validator.apply(left, right);
    }
}
```

It is required that if p instanceof Pair then p.isValid() returns true.

Which is the smallest set of visibility changes to insure this requirement is met?

- A. setLeft and setRight must be protected.
- B. left and right must be private.
- C. isValid must be public.
- D. left, right, setLeft, and setRight must be private.

---

**Answer: B**

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